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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/658,538	09/09/2000	Paul Robert Williams	1136/190-P00028US 3472		
757	7590 05/02/2006		EXAMINER		
BRINKS HO	OFER GILSON & LIC	ONE	CHAU, C	OREY P	
P.O. BOX 10			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60610			2615		

DATE MAILED: 05/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
09/658,538	WILLIAMS, PAUL ROBERT		
Examiner	Art Unit		
Corey P. Chau	2615		

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The MAILING DATE of this communication appe	ears on the cover sheet with the	correspondence add	ress
THE REPLY FILED <u>4/10/2006</u> FAILS TO PLACE THIS APPLIC	CATION IN CONDITION FOR ALL	OWANCE.	
1. The reply was filed after a final rejection, but prior to or or this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliant time periods:	wing replies: (1) an amendment, a otice of Appeal (with appeal fee) in	ffidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)
a) \square The period for reply expires 3 months from the mailing date	of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I	ater than SIX MONTHS from the mailing	ng date of the final reject	on.
Examiner Note: If box 1 is checked, check either box (a) or TWO MONTHS OF THE FINAL REJECTION. See MPEP 7		IE FIRST REPLT WAS F	ILED MITUIN
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of exunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office late may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply ori r than three months after the mailing d	t of the fee. The appropr ginally set in the final Offi	iate extension fee ce action; or (2) as
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exte a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), t	o avoid dismissal of th	ns of the date of se appeal. Since
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brice	f will not be entered b	0001100
(a) They raise new issues that would require further co (b) They raise the issue of new matter (see NOTE below	nsideration and/or search (see NC		ecause
(c) They are not deemed to place the application in bei	• •	educing or simplifying	the issues for
(d) They present additional claims without canceling a	corresponding number of finally re	jected claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).			
4. The amendments are not in compliance with 37 CFR 1.1	21. See attached Notice of Non-Ce	ompliant Amendment	(PTOL-324).
Applicant's reply has overcome the following rejection(s)			
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	·	•	•
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows:		ill be entered and an e	explanation of
Claim(s) allowed: Claim(s) objected to:			
Claim(s) rejected:			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
B. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e).			
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessar	overcome <u>all</u> rejections under appe	eal and/or appellant fai	Is to provide a
10. ☐ The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	entry is below or attach	ned.
 The request for reconsideration has been considered bu <u>See attached sheet.</u> 			nce because:
12. Note the attached Information Disclosure Statement(s). 13. Other:	(PTO/SB/08 or PTO-1449) Paper I	No(s)	7 、
		15/	
		VIVIAN CHI	-
		SUPERVISORY PATENT	CXAMINER

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Response to Arguments

1. Applicant's arguments filed 4/10/2006 have been fully considered but they are not persuasive.

Applicant discloses the "support for decreasing/increasing the notch depth is 2. provided on at least p. 19, lines 15-16". However, the specification on page 19, lines 15-16 discloses, "One embodiment uses a trail notch depth of 6dB. The trial notch depth is increased in depth in steps of 6dB when feedback is detected at the same frequency as the one already being filtered", which does not clearly support or equivalent to "decreasing a depth of the at least one digital filter if a magnitude of the at least one candidate signal of unwanted acoustical feedback is not reduced by a predetermined amount, such that the unwanted acoustical feedback in the space is reduced". Following the flow diagram of Fig. 11, in step 1108, "the magnitude is checked to see if it has been sufficiently reduced by comparing the reduction in magnitude at the candidate frequency to a predetermined value: TESTDROP". When the "magnitude of the at least one candidate signal of unwanted acoustical feedback is not reduced by a predetermined amount", the filter is set to bypass in step 1110 and the state flag is set to idle in step 1112. As discloses on page 18, "Once the TESTDROP comparison has failed, the filter bypassed, and the state set to Idle, the state machine routine and the filter are ready to be reassigned (in the same frame if necessary) to another frequency". "If the state flag is set to the idle state, (indicating that the filter is bypassed), then in step 1122 new filter parameters are set. The filter parameters may include new frequency, bandwidth, and trial notch depth". The specification does not clearly support "decreasing a depth of

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the at least one digital filter if a magnitude of the at least one candidate signal of unwanted acoustical feedback is not reduced by a predetermined amount, such that the unwanted acoustical feedback in the space is reduced". It would be greatly appreciated if Applicant can provide where in the specification is "decreasing a depth of the at least one digital filter if a magnitude of the at least one candidate signal of unwanted acoustical feedback is not reduced by a predetermined amount, such that the unwanted acoustical feedback in the space is reduced" clearly supported.

- 3. With respect to Applicant's argument on page 13, stating that "Seki does not describe the readjusting step", has been noted. However, the Examiner respectfully disagrees. Applicant discloses "at least one digital filter", but does not clearly define what is the "at least one digital filter" in the claim, which the Examiner is free to broadly interpret this term in any manner consistent with the term, such as the notch filters reference number 3, wherein the notch filter 3 is readjusted when a new howling occurs, which reads on "readjusting the at least one digital filter".
- 4. With respect to Applicant's argument on page 14, stating, "Claim 19 describes at least one digital filter, and readjusting the same. Seki, on the other hand, describes employing subsequent filters to suppress howling if a first filter does not accomplish the suppression, as previously discussed", has been noted. However, the Examiner respectfully disagrees. See argument above.

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Conclusion

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5. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Division 2615. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey P. Chau whose telephone number is (571)272-7514. The examiner can normally be reached on Monday - Friday 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on (571)272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 25, 2006 CPC

VIVIAN CHIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600